

#2
(3p)

GIVEN: $l = 37\text{cm}$ $h = 37\text{cm}$

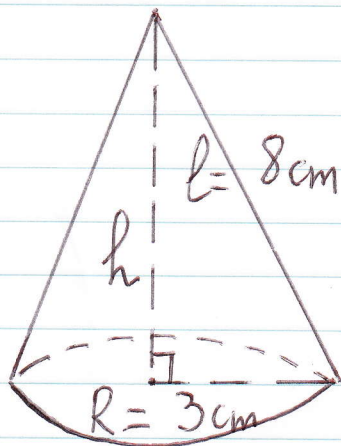
$w = 9\text{cm}$

FIND: SA - ?

$$SA = 2l \cdot w + 2l \cdot h + 2w \cdot h =$$

$$= 2 \cdot 37 \cdot 9 + 2 \cdot 37 \cdot 37 + 2 \cdot 9 \cdot 37 =$$

$$= 666 + 2738 + 666 = \underline{4070\text{cm}^2}$$



#5
(5p)

GIVEN: $l = 8\text{cm}$, $R = 3\text{cm}$

FIND: SA - ?

$$SA = \pi R^2 + \pi R \sqrt{R^2 + h^2}$$

$$R^2 + h^2 = l^2 = 8^2 = 64$$

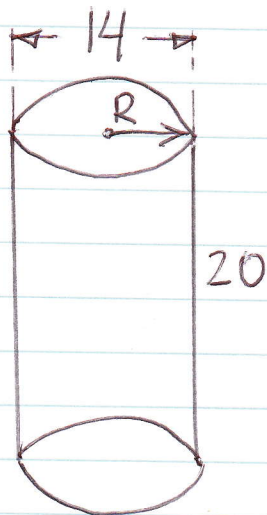
$$SA = \pi 3^2 + \pi \cdot 3 \sqrt{64} =$$

$$= 3.14 \cdot 9 + 3.14 \cdot 3 \cdot 8 = 28.26 + 75.36 =$$

$$= 103.62\text{cm}^2$$

$$\underline{SA = 103.62\text{cm}^2}$$

GEOM ch. 8.7 p. 450



#6
(4p)

GIVEN: $D = 14 \text{ cm}$
 $h = 20 \text{ cm}$

FIND: SA - ?

$$R = \frac{D}{2} = \frac{14}{2} = 7 \text{ cm}$$

$$SA = 2\pi R^2 + 2\pi R \cdot h$$

$$SA = 2 \cdot 3.14 \cdot 7^2 + 2 \cdot 3.14 \cdot 7 \cdot 20 =$$

$$= 307.72 + 879.20 =$$

$$= 1186.9 \text{ cm}^2$$

$$\underline{SA = 1186.9 \text{ cm}^2}$$